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Rémi Triolet, Francois Irigoin, Paul Feautrier

July 1986 **ACM SIGPLAN Notices , Proceedings of the 1986 SIGPLAN symposium on Compiler construction**, Volume 21 Issue 7

Full text available: pdf(956.82 KB)

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Asynchronous CALL statements are necessary in order to use more than one processor in current multiprocessors. Detecting CALL statements that may be executed in parallel is one way to fill this need. This approach requires accurate approximations of called procedure effects. This is achieved by using new objects called Region and Execution Context. An algorithm to find asynchronous CALL statements is given. It involves a new dependence test to compute data ...

2 [Automatic parallelization of divide and conquer algorithms](#)

Radu Rugina, Martin Rinard

May 1999 **ACM SIGPLAN Notices , Proceedings of the seventh ACM SIGPLAN symposium on Principles and practice of parallel programming**, Volume 34 Issue 8

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Divide and conquer algorithms are a good match for modern parallel machines: they tend to have large amounts of inherent parallelism and they work well with caches and deep memory hierarchies. But these algorithms pose challenging problems for parallelizing compilers. They are usually coded as recursive procedures and often use pointers into dynamically allocated memory blocks and pointer arithmetic. All of these features are incompatible with the analysis algorithms in traditional parallelizing ...

3 [Semantical interprocedural parallelization: an overview of the PIPS project](#)

François Irigoin, Pierre Jouvelot, Rémi Triolet

June 1991 **Proceedings of the 5th international conference on Supercomputing**

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Manish Gupta, Sayak Mukhopadhyay, Navin Sinha

December 2000 **International Journal of Parallel Programming**, Volume 28 Issue 6Full text available: [Publisher Site](#)Additional Information: [full citation](#), [abstract](#)


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